



April 10, 1991

RECEIVED

APR 15 1991

DIVISION OF
OIL GAS & MINING

BUREAU OF LAND MANAGEMENT
MOAB DISTRICT
P. O. Box 970
Moab, Utah 84532

Attention: Mr. Dale Manchester

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION
KANE SPRINGS FEDERAL #19-1
SEC.19-T268-R20E
GRAND COUNTY, UTAH

Dear Mr. Manchester:

Columbia Gas Development Corporation respectfully submits the enclosed Application for Permit to Drill, in triplicate, along with the following supplemental information for processing:

1. Eight Point Drilling Program
2. Multi-Point Surface Use Program
3. Directional Plan
4. BOPE Diagram
5. Certified Surveyor's Plat, Cut & Fill sheet
6. Area Topog.

We would like to request that all data submitted be kept confidential.

If you have any questions, or require any additional information, please contact me at 713/871-3482.

Sincerely,

COLUMBIA GAS DEVELOPMENT CORPORATION

Aline A. Reese
Regulatory Clerk

cc: State of Utah Natural Resources Oil, Gas & Mining
Mr. R. J. Firth

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Columbia Gas Development Corp. 713/871-3400

3. ADDRESS OF OPERATOR

P. O. Box 1350 Hou., TX. 77251-1350

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface 800' FSL & 1930' FWL of Sec. 19-T26S-R20E

At proposed prod. zone 2000 FNL & 1350' FEL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approx. 26 miles NW of Moab

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

800'

16. NO. OF ACRES IN LEASE

1991.05

17. NO. OF ACRES ASSIGNED
TO THIS WELL

640

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

9779 MD/7451 TVD

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

Ground Elev. Ungraded 5965.1 - Finished Grade elec. 5963.7 May 1991

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Set	20"	94#	660'	To Sfc. w/625 sx Cl-B
17 1/2"	13 3/8"	61#	4500'	265 Lite + 415 sx Cl-B
12 1/4"	9 5/8"	53#	7450'	1400 sx. Cl-G
	5 1/2"	20#	9779' (Production liner)	

See attached for additional supplemental info

1. Eight Point Drilling Program
2. Multi-Point Surface Use Program
3. Directional Plan
4. BOPE Digram
5. Certified Surveyor's plat, Cut & Fill Sheet
6. Area Topog

RECEIVED

APR 15 1991

DIVISION OF
OIL GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Alvin C. Reese

TITLE

Regulatory Clerk

DATE

4/10/91

(This space for Federal or State office use)

PERMIT NO.

43-019 31319

APPROVAL DATE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE: 5-21-91

BY: [Signature]

WELL SPACING: 615-3-2

*See Instructions On Reverse Side

SCALE 1" = 1000'	DATE 3-25-91
PARTY J.T.K. H.C. J.R.S.	REFERENCES G.L.O. PLAT
WEATHER COOL	FILE COLUMBIA GAS DEVL.P. CORP.

EIGHT-POINT DRILLING PROGRAM

COMPANY: Columbia Gas Development Corporation
WELL NAME: Kane Springs Federal #19-1
LOCATION: Sec. 19, T26S, R20E, Grand County, Utah

Onsite Inspection Date: April 3, 1991

CONFIDENTIAL

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulation 43 CFR 3100, Onshore Oil & Gas Order No.1, and the approved plan of operations. A copy of these conditions will be furnished to the field representative to insure compliance.

1. Estimated Geological Markers

<u>Formation Tops</u>	<u>Depth</u>	<u>Subsea</u>
Wingate	Surface	+5965
Chinle	607	+5383
Moenkopi	1000	+4990
Cutler	1485	+4505
Rico	2225	+3765
Hermosa	2693	+3297
Paradox Salt	4423	+1567
Cane Creek	7355	-1365

2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals

<u>Formation Tops</u>	<u>Depth</u>	<u>Subsea</u>	<u>Remarks</u>
Wingate	Surface	+5965	Fresh Water
Cane Creek	7355	-1365	Oil

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected.

3. Operator's Minimum Specifications for Pressure Control Equipment

The Moab BLM office will be notified, with sufficient lead time, to witness pressure testing of BOPE.

A rotating head and blooey line will be rigged up on the conductor and surface pipe. See Exhibit C-1.

One (1) annular bag-type preventer will be utilized while drilling the surface hole.

One (1) annular bag-type and three (3) ram-type preventers will be utilized while drilling below the intermediate pipe. Ram preventers are to be tested to seventy percent (70%) of the working pressure, or seventy percent (70%) of the burst rating of the intermediate pipe, whichever is lesser. Annular preventer is to be tested to fifty percent (50%) of working pressure. See Exhibit C-2.

Choke manifold will meet or exceed the requirements of the typical 3M manifold as in Onshore Order #2. See Exhibit C-3.

All BOPE and testing procedures will be consistent with API RP-53 and will be conducted before drilling out casing shoe. Preventers will be inspected and operated at least once daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report.

4. Casing Program and Auxiliary Equipment

The Moab BLM office will be notified, with sufficient lead time, to witness the running and cementing of all casing strings.

Surface Pipe

<u>Interval</u>	<u>Size</u>	<u>Wt.</u>	<u>Gr.</u>	<u>Conn.</u>	<u>Burst/SF</u>	<u>Cols/SF</u>	<u>Tension/SF</u>
0-660'	20"	94	H40	STC	1530/6.9	520/1.8	581M#/9.36

Set 50' into the Chinle. Cemented to surface with 625sx Class B.

Intermediate Pipe

<u>Interval</u>	<u>Size</u>	<u>Wt.</u>	<u>Gr.</u>	<u>Conn.</u>	<u>Burst/SF</u>	<u>Cols/SF</u>	<u>Tension/SF</u>
0-4500'	13-3/8	61	K55	STC	3090/1.14	1540/1.55	633M/2.30

Cemented with 265sx lightweight plus 415sx Class B, with estimated top of cement at 3500'. Pressure test to 2160 psi before drilling out shoe.

Collapse design based on .22 psi/ft gradient. Burst design based on shoe test of 13.5 ppge less .1 psi/ft gas gradient.

Production Pipe

<u>Interval</u>	<u>Size</u>	<u>Wt.</u>	<u>Gr.</u>	<u>Conn.</u>	<u>Burst/SF</u>	<u>Cols/SF</u>	<u>Tension/SF</u>
0-7450'	9-5/8	53	S95	LTC	9410/1.92	8850/1.20	1235M/2.29

Cemented with 1400sx Class G, with estimated top of cement at 4100'. Pressure test to 5000 psi before drilling out shoe.

Collapse design based on 1.0 psi/ft overburden gradient. Burst based on max. mud wt in offset wells (17.0 ppg) less .22 psi/ft oil gradient.

Production Liner

<u>Interval</u>	<u>Size</u>	<u>Wt.</u>	<u>Gr.</u>	<u>Conn.</u>	<u>Burst/SF</u>	<u>Cols/SF</u>	<u>Tension/SF</u>
7000-9779'	5-1/2	20	S95	BTC	10680/NA	10680/1.43	554M/9.96

Bottom 2330' to be pre-drilled with 3/4" holes, 3' apart at 90° phase.

An isolation packer will be run on top of the liner.

Collapse design based max. mud wt in offset wells (17.0 ppg).

Auxiliary Equipment

A kelly cock will be kept in the string at all times.

A stabbing valve will be kept on the derrick floor at all times.

A float will not be used, other than when air drilling.

5. Mud Program

No chromates will be used in this well.

<u>Depth</u>	<u>Mud Wt</u>	<u>Visc.</u>	<u>PV</u>	<u>YP</u>	<u>WL</u>	<u>Mud Type</u>
0-660'	8.4	26-28	1-4	4	NC	FW & Gel
660-4500'	---	---	---	--	--	Air/Mist
4500-7300'TVD	9.6	42-46	18	21	<10	Oil Base
7300-7370'TVD	9.6-12.5	42-46	18	21	<10	Oil Base
7370-7451'TVD	16.5	54-57	35	21	<4	Oil Base

6. Testing, Logging and Coring Programs

A. Drill Stem Tests: None planned.

B. Well Logging and Intervals:

Induction/Sonic/GR 4500-6990'TVD

MWD-Induction/GR will be attempted in the horizontal section (6990-9779'MD, 7451'TVD).

C. Cores: A 30' oriented core will be attempted in the Cane Creek formation.

D. Directional Surveys: This well as proposed will be drilled vertically to 6990' and then drilled as a medium radius horizontal well in the direction of N 13° E for a total displacement of 2547'. Inclination test will be taken at 500' and at 1000' maximum intervals until KOP. At KOP a multi-shot will be taken. During the angle build portion, surveys will be taken at 90' maximum intervals. During the horizontal portion of the hole, surveys will be taken at 200' maximum intervals.

- E. Samples: One sample will be taken at 10' intervals from 4500' to TD.
- F. Mud Logger: There will be a mud logger on location 4500' (below intermediate pipe) to TD.
- G. Completion Procedure: To be submitted on Form 5 under "Approval of Subsequent Operations".

Where the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and well all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations will be filled with Form 3160-4.

7. Anticipated Abnormal Pressure, Temperatures or Potential Hazards

Abnormal pressure is anticipated in the Cane Creek formation. The proposed casing program and pressure control equipment has been designed based on the anticipated abnormal pressures of the Cane Creek formation.

Hydrogen Sulfide is not anticipated.

8. Notification of Operations & Other Information

Construction of location is scheduled to start on May 10, 1991.

No Location will be constructed or moved, no well will be plugged and no drilling or workover equipment will be removed from well to be placed in a suspended status without prior approval of the AO.

Spud date is scheduled for May 20, 1991. The spud date will be reported orally to the AO within 48 hours after spudding, or on the next business work day if spud occurs on a weekend.

Spills, blowouts, fires, leaks, accidents or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revisions.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a production status.

Notification will be made no later than five days following the date on which the well is placed on production.

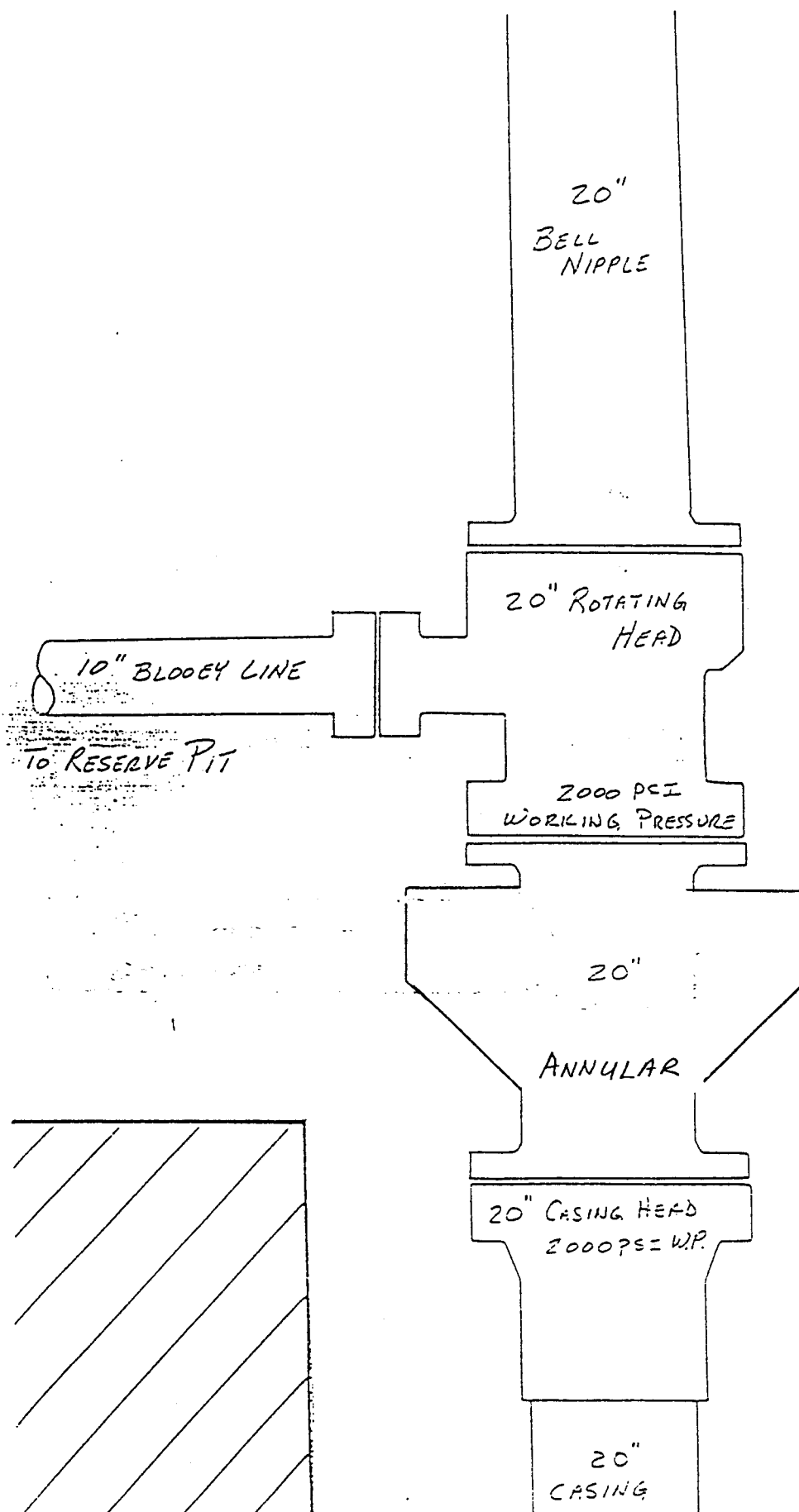
Venting/flaring of gas during initial well evaluation tests will not exceed a period of thirty days or the production of 50 MMcf of gas, whichever occurs first. An application will be filed with the District Engineer and approval received, for any venting or flaring beyond the initial 30 day authorized test period.

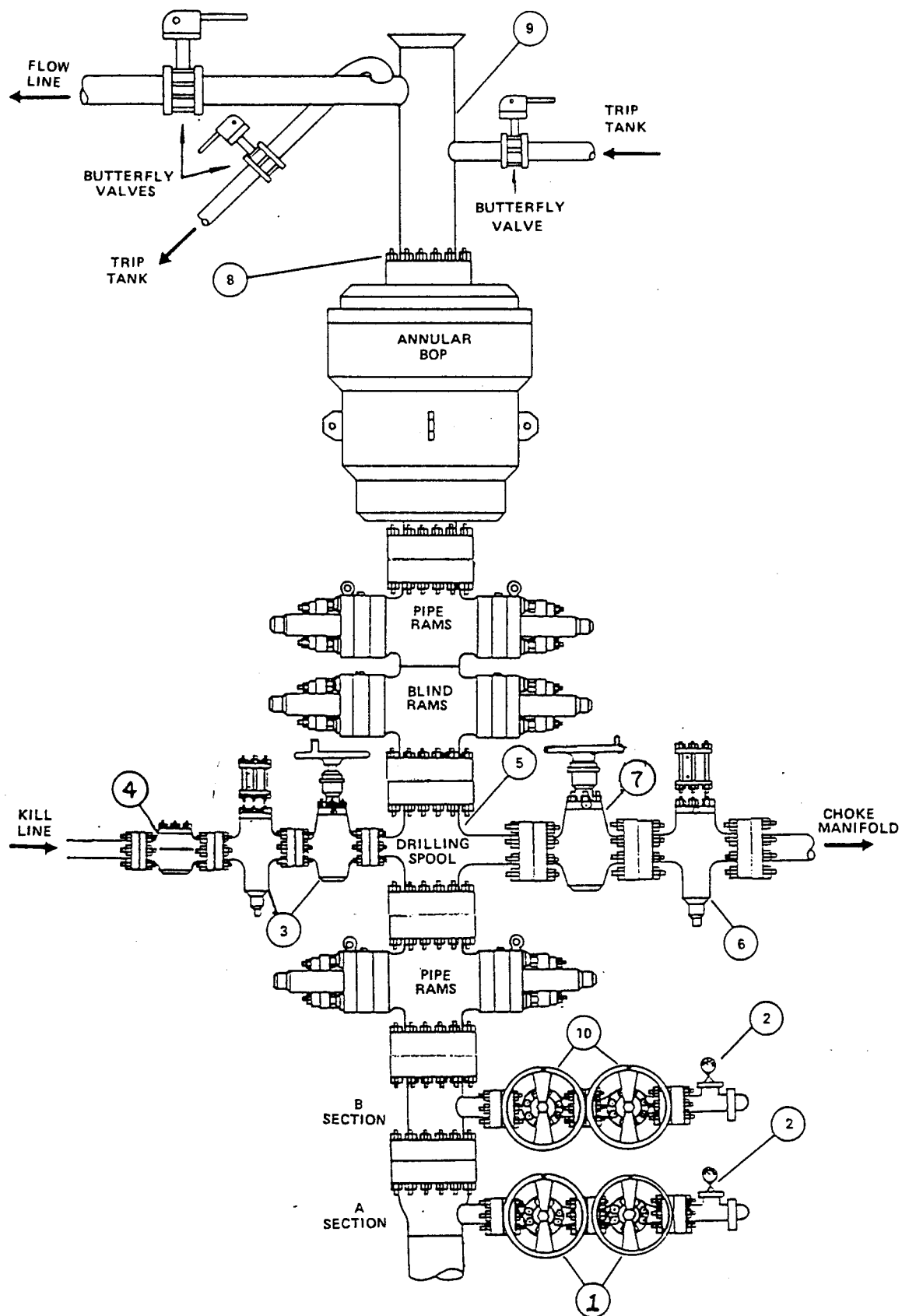
Well abandonment operations will commence only after prior approval has been received from the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" will be filed with the AO within 30 days following completion of the well abandonment operations.

There will be no deviation from the proposed drilling and/or workover program without prior approval of the AO. Safe drilling and operating practices will be observed.

This well, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.3-2.

EXHIBIT C-1





TYPICAL - 4 PREVENTOR BOPE STACK
OFFSHORE LOUISIANA

COMPONENT SPECIFICATIONS

1. Screwed or flanged plug or gate valves — 2" minimum nominal dia. — same working pressure as "A" section.
2. Tee with tapped bullplug, needle valve, and pressure gauge.
3. Flanged plug or gate valve — 2" minimum nominal dia. — same working pressure as BOP stack. Second valve up stream may be hydraulically controlled.
4. Flanged flapper type check valve — 2" minimum nominal dia. — same working pressure as BOP stack.
5. Drilling spool of sufficient height to allow stripping with 2 flanged side outlets — 3" choke and 2" kill line minimum nominal dia. (See Table II-4 and Note D.)
6. Flanged hydraulically controlled gate valve — 3" minimum nominal dia. — same working pressure as BOP stack. (See Note D.)
7. Flanged plug or gate valve — 3" minimum nominal dia. — same working pressure as BOP stack.
8. Top of annular preventer must be equipped with an API flange ring gasket. All flange studs must be in place or holes filled in with screw type plugs.
9. The I.D. of the bell nipple must not be less than the minimum I.D. of the BOP stack.
10. Flanged plug or gate valve — 2" minimum nominal dia. — same working pressure as "B" section.

NOTE:

The choke line between the drilling spool and choke manifold should not contain any bend or turn in the pipe body. Any bend or turn required should be made with a running tee with a blind flange or welded bullplug. All connections should be flanged or welded. All fabrications requiring welding must be done by a certified welder. Welds should be stress relieved when required.

Plug valves should be equivalent to the Howco Lo-Torc and gate valves equivalent to the Cameron Type 'F'.

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)
3. APPROXIMATE DATE PROJECT WILL START:
May 1991
4. AREAWIDE CLEARING HOUSE(S) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Southeastern Utah Association of Governments
5. TYPE OF ACTION: ☐ Lease ☒ Permit ☐ License ☐ Land Acquisition
☐ Land Sale ☐ Land Exchange ☐ Other _____
6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill
7. DESCRIPTION:
Columbia Gas Development Corporation proposes to drill the #19-1 well (wildcat) on federal lease UTU-53626, Grand County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S Bureau of Land Management is the primary administrative agency in this action and must issue approval before operations commence.
8. LAND AFFECTED (site location map required) (indicate county)
SW/4, SE/4, Section 19, Township 26 South, Range 20 East, Grand County, Utah
9. HAS THE LOCAL GOVERNMENT(S) BEEN CONTACTED?
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
See Attachment
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
Dianne R. Nielson
PHONE: 538-5340
12. FOR FURTHER INFORMATION, CONTACT:
13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL
Dianne R. Nielson
DATE: 4-30-91 Director

WOI187

**Attachment to State Action Form Dated 4-30-91
for the Columbia Gas Development Corporation #19-1 Well**

The final approval issued by DOGM will incorporate necessary stipulations to assure compliance with Utah Code Ann. 40-6-1 et seq (1953, as amended); Utah Admin. R. 615-1 et seq, Oil and Gas General Rules; and in accordance with the proposed drilling and surface use programs submitted by Columbia.

Additionally, stipulations may be necessary to mitigate other potential impacts and minimize environmental consequences of this particular drilling location, including but not limited to:

1. Air quality impacts (exhaust pollution)
2. Water quality impacts
3. Dust abatement
4. Odor mitigation (noxious gases)
5. Health, safety and noise impacts
6. Visual impacts
7. Impacts to recreation
8. Wildlife habitat impacts
9. Land use impacts
10. Cultural, historical and archaeological impacts.

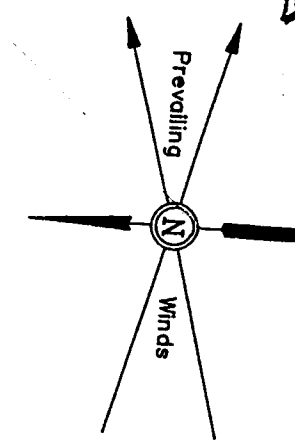
RECEIVED

COLUMBIA GAS DEVELOPMENT CORP.

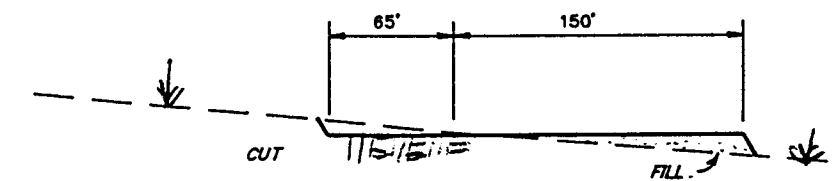
APR 15 1991

DIVISION OF
OIL GAS & MINING

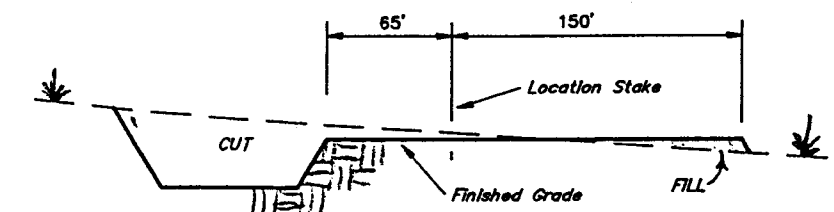
LOCATION LAYOUT FOR
KANE SPRING FED. #19-1
SECTION 19, T26S, R20E, S.L.B.&M.



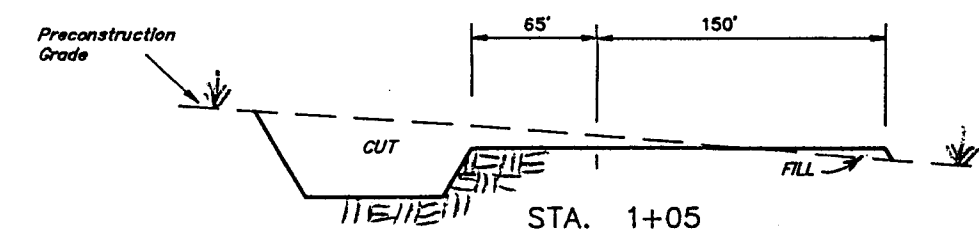
SCALE: 1" = 50'
DATE: 3-25-91
Drawn By: J.R.S.
REVISED: 3-26-91 R.E.H.



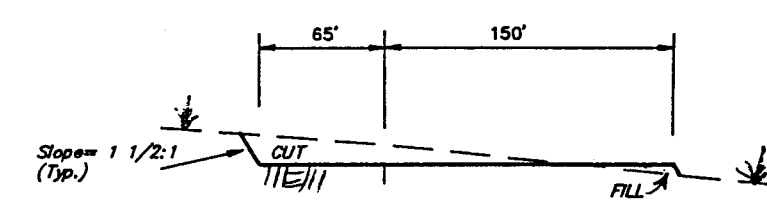
STA. 4+50



STA. 2+50



STA. 1+05



STA. 0+00

TYP. LOCATION LAYOUT
TYP. CROSS SECTIONS

APPROXIMATE YARDAGES

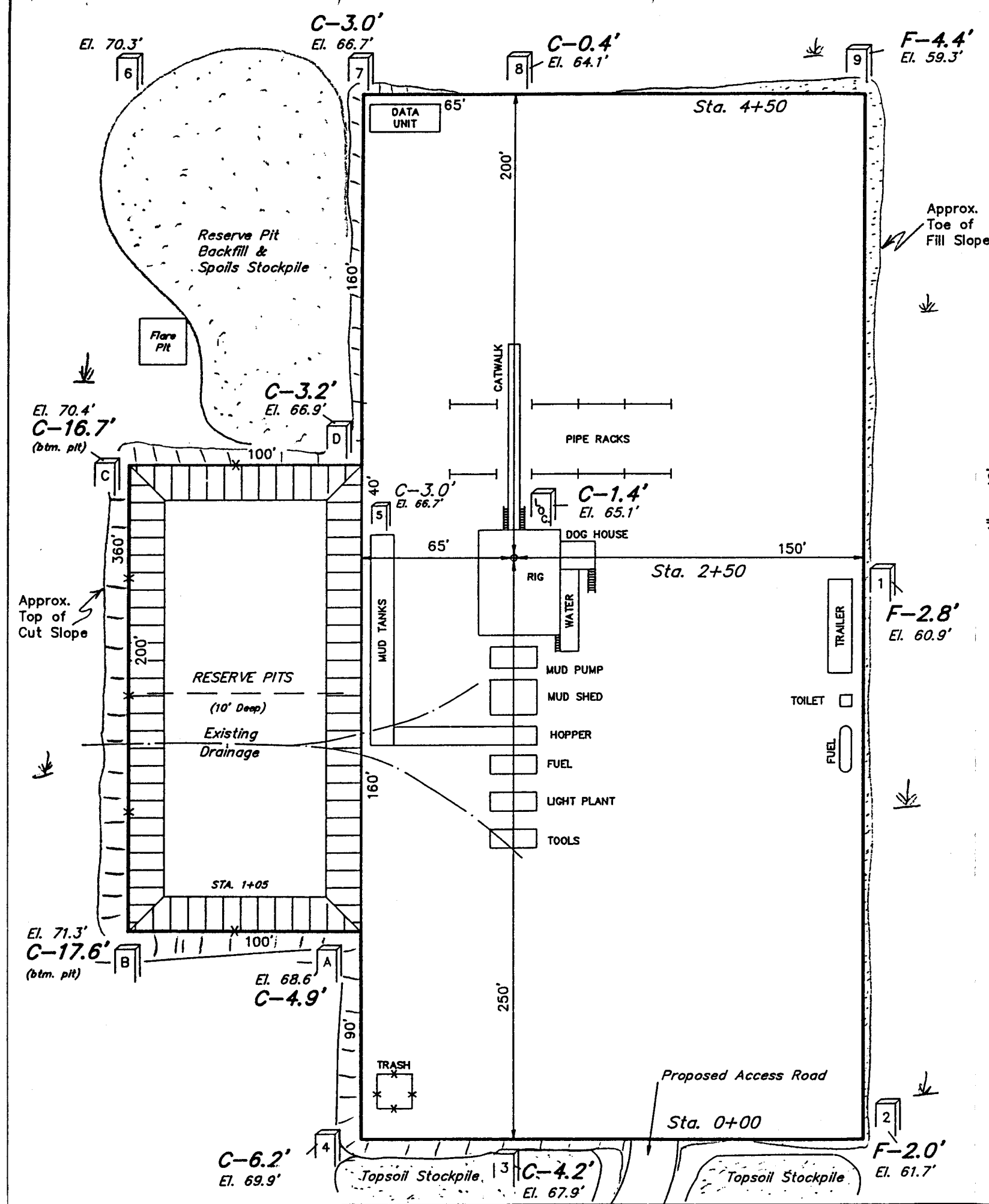
CUT	
(6") Topsoil Stripping	= 2,200 Cu. Yds.
Pit Volume (Below Grade)	= 5,820 Cu. Yds.
Remaining Location	= 8,670 Cu. Yds.
TOTAL CUT	= 16,990 CU.YDS.
FILL	= 3,480 CU.YDS.

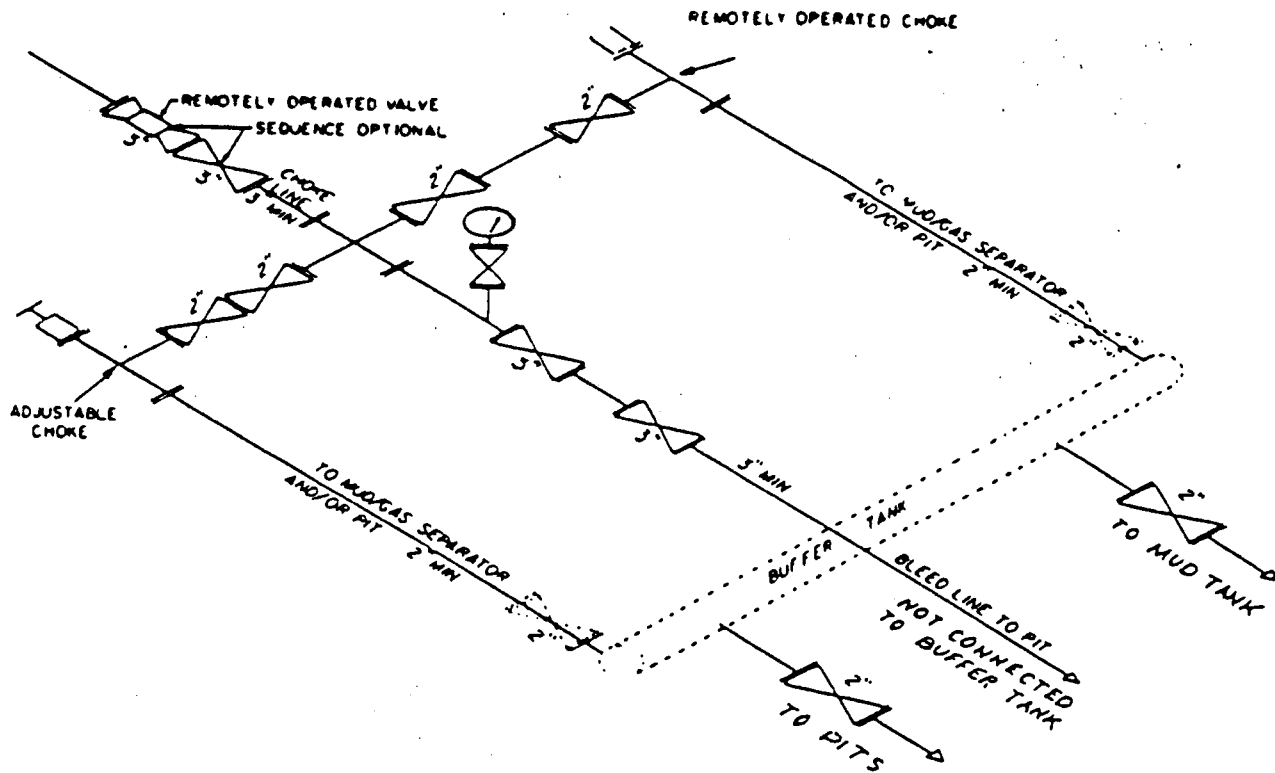
EXCESS MATERIAL AFTER 5% COMPACTION	= 11,200 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 5,110 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 6,090 Cu. Yds.

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5965.1'
FINISHED GRADE ELEV. AT LOC. STAKE = 5963.7'

UINTAH ENGINEERING & LAND SURVEYING
85 South 200 East Vernal, Utah





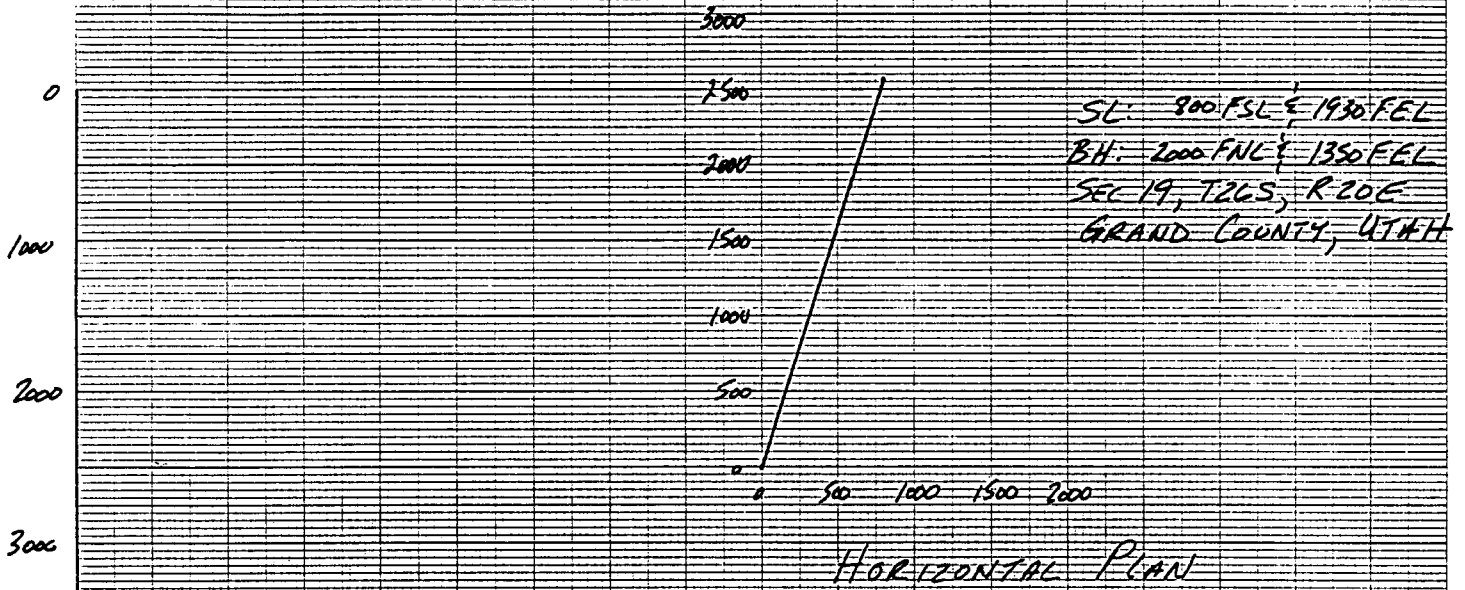
5M CHOKER MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, or 15M drawings, it would also be applicable to those situations.

[FR Doc. 88-28738 Filed 11-17-88; 8:45 am]
BILLING CODE 4310-04-C

COLUMBIA GAS DEVELOPMENT

KANE SPRINGS FEDERAL #19-1 DIRECTIONAL PLAN



BUILD RATE 13.5°/100'

TVD @ END OF BUILD: 7414'

TVD @ END OF SECTION: 7451'

VERTICAL SECTION

N 13.16° E

DRAWN BY: ROBERT J. PIER, P.E.

REGISTRATION No 65041

STATE OF TEXAS

Robert J. Pier 4/8/91

46 1510

10 X 10 TO THE CENTIMETER 19 X 25 CM.
KEUFEL & L'ESPER CO. MADE IN U.S.A.

KANE SPRING FEDERAL #19-1 GRAND COUNTY, UTAH

MUD WEIGHT
11.0 11.5 12.0 13.0 14.0 15.0 16.0 17.0

20" @ 650'

AIR/MIST

13 3/8" @ 4500'

DRILL OUT 13 3/8" SHOES
w/ 10.8 ppg OIL MUD

9 5/8" @ 7450'

60' CORE IN PAY SECTION

WEIGHT UP TO 11.5 ppg
PRIOR TO 7350' TVD

5 1/2" PERFORATED
LINER @ 9650'

46 1510

10 X 10 TO THE CENTIMETER 10 X 25 CM.
NEUFEL & LUSSEN CO. MADE IN U.S.A.

0
1000
2000
3000
4000
5000
6000
7000
8000
9000
10000

0 5 10 15 20 25 30 35 40 45 50 55 60

CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

COMPANY :	Columbia Gas Development Corporation
WELL NAME & NUMBER:	Kane Springs Federal #19-1
LEASE NO.:	UTU-53626
LOCATION:	SW/4 SE/4 Sec.19,T26S,R20E
SURFACE OWNERSHIP:	Bureau of Land Management

NOTIFICATION REQUIREMENTS

Notify Elmer Duncan of the Grand Resource Area, at (801)259-8193 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

1 day prior to running and cementing surface casing;

1 day prior to pressure testing of surface casing.

Notify the Moab District Office, Branch of Fluid Minerals at (801)259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the Assistant District Manager, Minerals Division. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed.

Dale Manchester, Petroleum Engineer Office: (801)259-6111
Home: (801)259-6239

Eric Jones, Petroleum Engineer Office: (801)259-6111
Home: (801)259-2214

If unable to reach the above individuals including weekends, holidays or after hours please call the following:

Lynn Jackson,
Chief, Branch of Fluid Minerals Office: (801)259-6111
Home: (801)259-7990

24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS

ONSITE DATE: 4/3/91

THIRTEEN POINT SURFACE USE PROGRAM

MULTIPOINT REQUIREMENTS TO ACCOMPANY APD

1. EXISTING ROADS

A. Existing road and location in relation to location submitted on Exhibit "A".

B. From Moab, Utah:

Travel North on 191 for approx. 9 miles. At the Dead Horse Point & Canyonlands Park sign turn left onto 313 and travel approx. 16.6 miles, then turn right off 313 onto a two track jeep trail for .6 of a mile, then turn off onto the proposed access road in a westerly direction for approx. .3 of a mile onto the east end of the location.

C. Description of roads in area: All weather asphalt & two trail jeep roads.

2. PLANNED ACCESS ROADS

A. Length: Approx. .3 of mile as staked.

B. Width: Eighteen (18) ft. running surface.

C. Maximum Grades: N/A

D. Turnouts: Do not anticipate any turnouts.

E. Drainage Design: There will be minimum disturbance during drilling phase. If the well is a producer upgrading will be done as required.

F. Location and size of culverts and/or bridges, and brief description of any major cuts and fills: None

G. Surface Material Source: Native materials

H. Necessary gates, cattleguards, or fence cuts and/or modification to existing facilities: None

All travel will be confined to existing access road.

I. Notification will be given to the Bureau of Land Management, District Office, with sufficient lead time, prior to the construction of access road, and drill pad.

Access and location under the jurisdiction of the Bureau of Land Management.

- J. Columbia Gas Development Corporation will provide Dirt Contractor with necessary maps, pad and road construction plans.

3. LOCATION OF EXISTING WELL

Kane Springs Federal #27-1
Sec.27 - T25S - R19E
Grand County, Moab.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

Notification will be given to the Bureau of Land Management, District Office, with sufficient lead time, prior to construction of production facilities.

- A. If well is productive, new on-well pad facilities and lines will be submitted as "as built" under the following guidelines:

1. Tank battery and/or location will be surrounded by a dike of sufficient capacity to contain the contents of the largest vessel within the dike plus one day's production.
2. Facilities will be placed in cut as much as possible.
3. A wind-sock will be placed on the Tank battery so it is visible from all parts of the location.
4. All internal combustion engines associated with production facilities will be equipped with noise reducing mufflers.
5. All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat non-reflective, earthtone color to match one of the standard environmental colors as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with O.S.H.A. will be excluded.
6. Fire prevention and suppression requirements for operations on Federal lands will be followed as per Bureau of Land Management guidelines.

7. No permanent above ground pipelines will be installed between the wellhead and treater or between the treater and flare pit.
8. All spills (production water or oil) or pipeline breaks outside the diked area will be reported within the 24 hours to the District office.
9. All facilities will be painted a nonreflective, earth-tone color to match the Standard Environmental Colors, as determined by the Rocky Mountain Five State Inter-agency Committee, within six (6) months of installation.

5. LOCATION AND TYPE OF WATER SUPPLY

The necessary permits will be obtained by the operator from the appropriate State Water Rights Division office for the use of water at the drillsite.

Fresh water & salt water will be trucked by a local trucking company.

6. SOURCE OF CONSTRUCTION MATERIALS

No construction materials will be used other than native materials. Soil from cuts will be used in fills. No outside materials will be brought in.

7. METHODS FOR HANDLING WASTE DISPOSAL

- A. Methods and location of proposed safe containment and disposal of each type of waste material:
 1. Cuttings will be deposited in the reserve pit.
 2. Drilling fluids will be deposited in the reserve pit.
 3. Produced Water: While testing the well, all produced water will be contained in a storage tank. If well is a producer, a saltwater storage tank will be installed with tank battery.
 4. Sewage will be disposed of according to county and state requirements in a portable chemical toilet or in a hole at least 15 deep excavated in the cut portion of the well pad.
 5. Portable dumpsters will be used for all trash. All trash will be hauled offsite.

- B. The Reserve pit shall be constructed so as not to leak, break, or allow discharge. The Reserve pit shall not be lined unless post construction inspection indicates a need to do so.
- C. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the ninety day period, in accordance with NTL-2B, an application for approval of permanent disposal method and location, along with required water analysis, shall be submitted for the authorized officer's approval.

8. ANCILLARY FACILITIES

No camp, airstrip or other facility will be built during the drilling of this well.

9. WELL SITE LAYOUT

A. See attachment for the Well Site Layout showing the following: Substructure, Engine, Mud pumps, Mud tanks, Diesel tank, Water Tank, Boiler, Light plant, Dog house, Bunk house, Pipe racks, Catwalk, Choke manifold, Accumulator, Derrick stand, Wireline, Mud mixer, Change house, Trailers, Trash bin, parts house, Mud manifold, Mud storage, Desander/Desilter, Winterizing or parts tub.

Also attached is a cross section diagram showing cuts & fills in relation to existing topography.

The location will be constructed large enough to accommodate the drilling rig and associated equipment with allowance made for future completion and production equipment.

No topsoil stripping will be done when soils are moisture saturated to a depth of 3 inches, or frozen below stripping depth.

B. Fencing requirements - All pits will be fenced according to the following minimum standards:

1. 30-inch net wire shall be used with at least one strand of barbed wire on top of the net wire (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
2. The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net wire. Total height of fence shall be 42-inches.

3. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
4. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
5. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

10. PLANS FOR RESTORATION OF SURFACE

A. Production location

1. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.
2. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1
3. The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within ninety (90) days from the date of well completion. Before any dirt work takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc., will be removed.
4. Seed mixtures to be used in rehabilitation will be provided by the BLM District Office. Seed mixtures will be certified weed free and seeding will be accomplished during the spring or fall.

Seed tags will be submitted to the area manager within 30 days of seeding.

5. Site rehabilitation will be completed within six (6) months, weather permitting. Before any production facilities are constructed, a site reclamation plan will be submitted to the District Office for all areas not required for production

facilities.

B. Dry Hole/Abandoned Location

1. At such time as well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the BLM will attach the appropriate surface rehabilitation conditions of approval.
2. The location will be rehabilitated within six (6) months, weather permitting, from the date the well is plugged.

11. SURFACE OWNERSHIP

Surface location and access roads are owned by the United States of American under jurisdiction of the Bureau of Land Management.

12. OTHER INFORMATION

The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archeological sites, or for collecting artifacts. If historic or archeological materials are uncovered during construction, the operator will immediately stop work that further disturb such materials, and contact the authorized officer. Columbia Gas Development Corporation will comply with the requirements set forth by the BLM Surface Use Stipulations.

- A. Columbia Gas Development Corporation has a One Hundred and Fifty Thousand (150,000) dollar Nationwide Bond - copy attached.
- B. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.
- C. The closest town is Moab, located approx. 26 miles to the SE of the proposed location.
- D. There will be no deviation from the proposed drilling program without prior approval from the District.

- E. Sundry Notice & Report on wells (Form 3160-5) will be filed for approval of all changes of plans and other operations in accordance with 43 CFR 3164.
- F. Dirt Contractor will be provided with an approved copy of the Surface Use plan.

13. LESSEE'S OR OPERATOR REPRESENTATIVE AND CERTIFICATION

Columbia Gas Development Corporation
P. O. Box 1350
Houston, Texas 77251-1350
713/871-3400

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A complete study of the approved APD and ROW grant, if applicable, shall be on location during construction activities.

The operator or his/her contractor shall contact the BLM Office @ 801/259-8193 forty-eight (48) hours prior to construction activities.

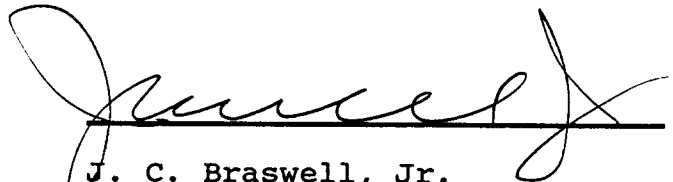
The BLM shall be notified upon site completion prior to moving on the drilling rig.

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and , that the work associated with the operations proposed here will be performed by Columbia Gas Development Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

4/9/91

DATE


J. C. Braswell, Jr.
Director of Drilling

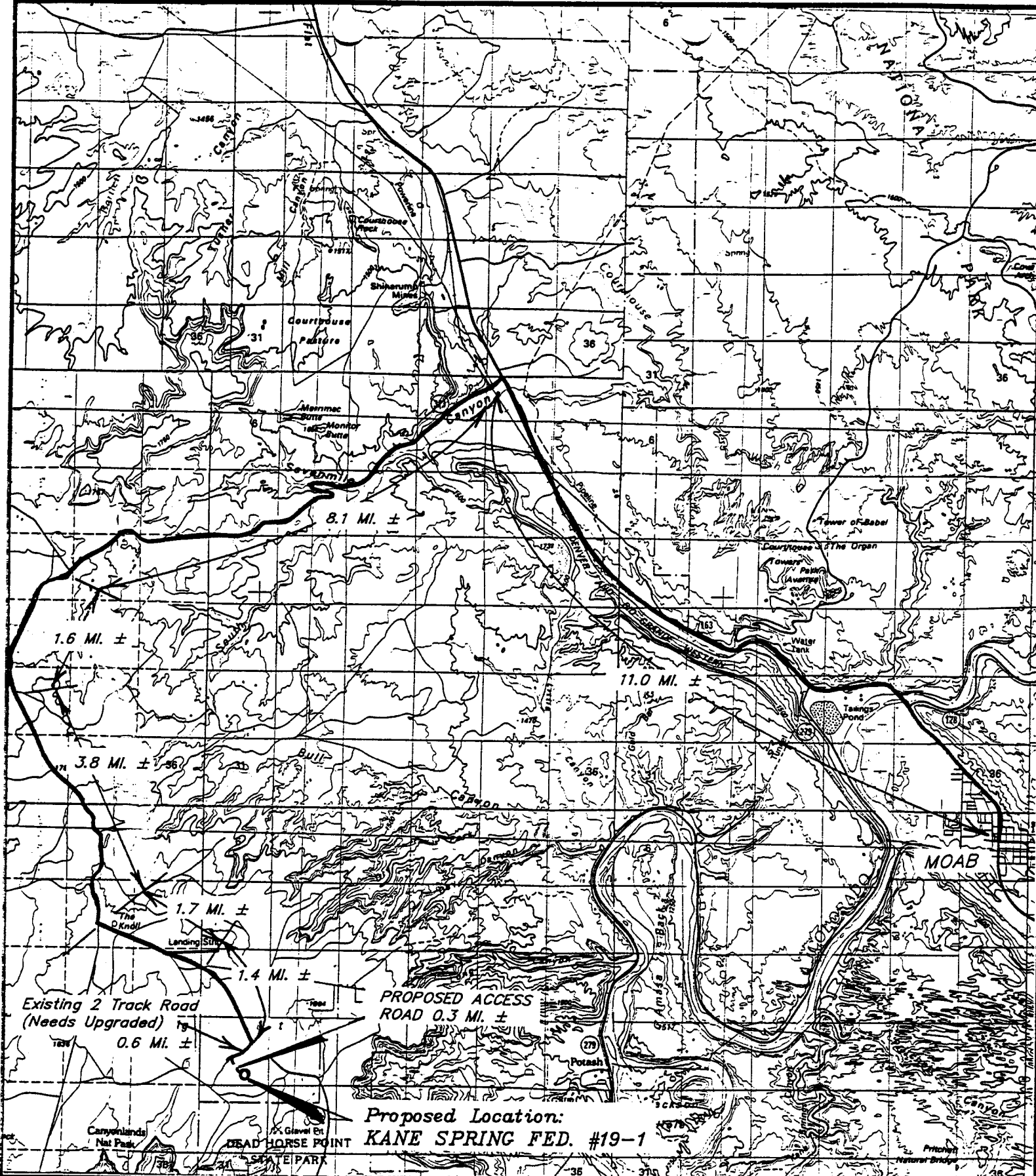
TOPOGRAPHIC
MAP "A"

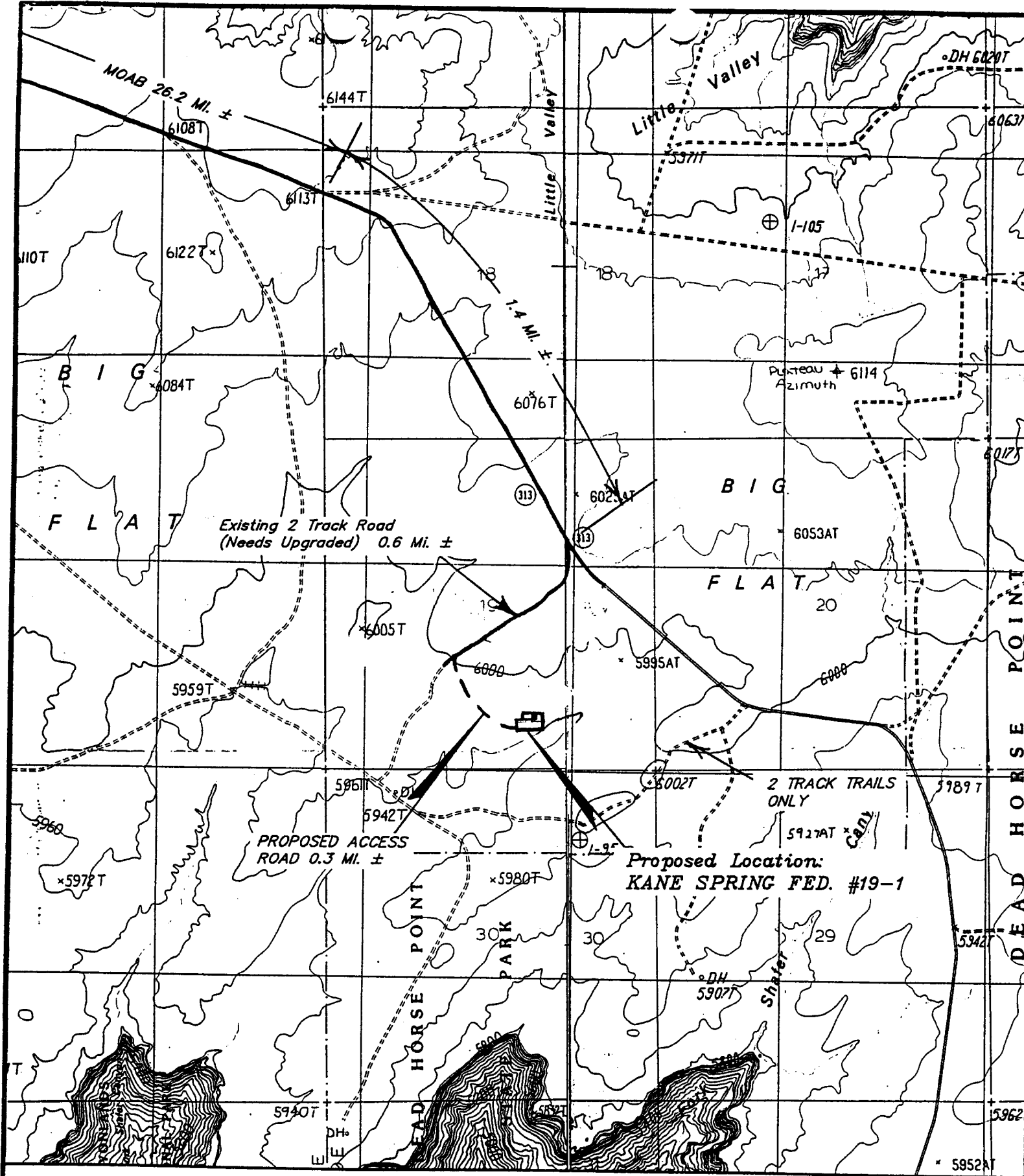
DATE 3-25-91



COLUMBIA GAS DEVELOPMENT CORP.

KANE SPRING FED. #19-1
SECTION 19, T26S, R20E, S.L.B.&M.





TOPOGRAPHIC
MAP "B"
SCALE: 1" = 2000'
DATE 3-25-91

COLUMBIA GAS DEVELOPMENT CORP.

KANE SPRING FED. #19-1
SECTION 19, T26S, R20E, S.L.B.&M.

CONFIDENTIAL

OPERATOR Columbia Gas Development N-5035 DATE 4-16-91

WELL NAME Kare Springs #19-1

SEC SWSE 19 T N6S R N0E COUNTY Grand

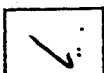
43-019-31314

API NUMBER

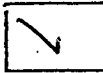
Federal (1)

TYPE OF LEASE

CHECK OFF:



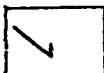
PLAT.



BOND



NEAREST
WELL



LEASE



FIELD
SLBM



POTASH OR
OIL SHALE

PROCESSING COMMENTS:

No other well within Section 19

Water Permit

ROEC 4-30-91

Potash area

Expansion of unit Kare Springs

APPROVAL LETTER:

SPACING:



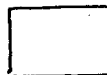
R615-2-3

N/A

UNIT



R615-3-2



N/A

CAUSE NO. & DATE



R615-3-3

STIPULATIONS:

water permit needed

1- Potash stipulation

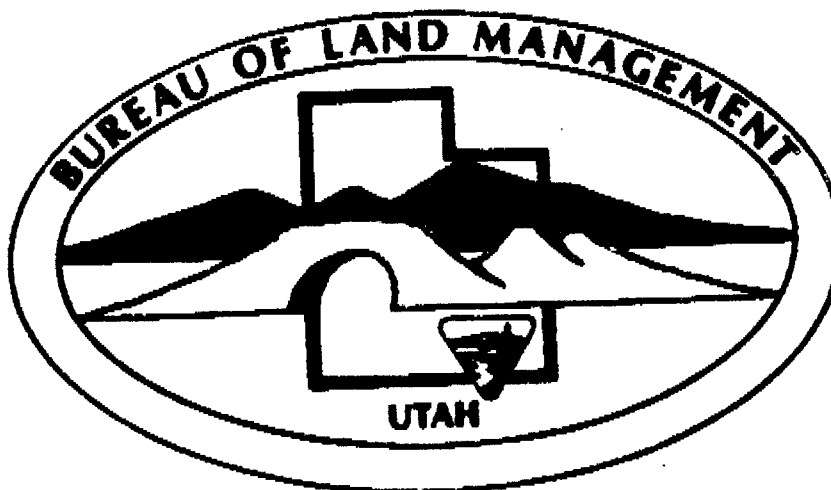
CONFIDENTIAL

PERIOD

EXPIRED

ON 7-29-92

F A X TRANSMITTAL



To: R.J. Firth
From: Bill Stringer
Subject: Columbia Decision Record
Number of Pages: 1
FAX Machine No.: 259-2106
Date: 5/14/91
Time: 10:00 am
USO Log No.: _____
Comments:

File Code 3160

DECISION RECORD AND
FINDING OF NO SIGNIFICANT IMPACTEA Log No. UT-068-91-042Lease No. U53626Project Application for Permit to Drill Oil Exploration Well 19-1Applicant Columbia Gas Development Address Houston, TXProject Location Sec. 19, T.26S., R.20E., SLM County GrandBLM Office Grand Resource AreaPhone No. (301) 259-6193

DECISION RECORD: The following is the decision of the Bureau:

To approve the Application(s) for Permit to Drill subject to the terms and provisions of the lease and the subsequent Conditions of Approval.

CONDITIONS OF APPROVAL: Refer to attached sheet.Rationale:

The Application for Permit to Drill and the attached conditions will prevent significant impacts to the environment. The AFD is in conformance with management actions provided for in the Grand Resource Area RMP, consistent with BLM objectives of 43 CFR 3160, and National Minerals Management Policy.

Renneth V. Rhea
Acting District Manager

5/14/91
Date

FINDING OF NO SIGNIFICANT IMPACT

Based on the analysis of potential environmental impacts contained in the accompanying environmental assessment, referenced above, I have determined that impacts are not expected to be significant. Therefore an environmental impact statement is not required.

B. O. O. B.
Area Manager

5/10/91
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Columbia Gas Development Corp. 713/871-3400

3. ADDRESS OF OPERATOR

P. O. Box 1350 Hou., TX. 77251-1350

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface 800' FSL & 1930' FWL of Sec. 18-T26S-R20E

At proposed prod. zone 2000 FNL & 1350' FEL

5. LEASE DESIGNATION AND SERIAL NO.

UTU-53626

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

KANE SPRINGS FEDERAL

8. FARM OR LEASE NAME

UNIT

KANE SPRINGS FEDERAL

9. WELL NO.

#19-1

10. FIELD AND POOL, OR WILDCAT

WILDCAT (CONFIRMING WEL

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

SEC. 19, T26S, R20E

12. COUNTY OR PARISH 13. STATE

GRAND

UTAH

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approx. 26 miles NW of Moab

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

800'

16. NO. OF ACRES IN LEASE

1991.05

17. NO. OF ACRES ASSIGNED
TO THIS WELL

640

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

9779 MD/7451 TVD

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

Ground Elev. Ungraded 5965.1 - Finished Grade elec. 5963.7 May 1991

22. APPROX. DATE WORK WILL START*

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
--------------	----------------	-----------------	---------------	--------------------

RECEIVED

MAY 16 1991

DIVISION OF
OIL GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Alex C. Reese

Reese

TITLE

Regulatory Clerk

DATE

4/10/91

(This space for Federal or State office use)

PERMIT NO.

Assistant District Manager
for Minerals

MAY 14 1991

APPROVED BY

/S/ WILLIAM C. STRINGER

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A

Dated 1/1/80

CONDITIONS OF APPROVAL ATTACHED

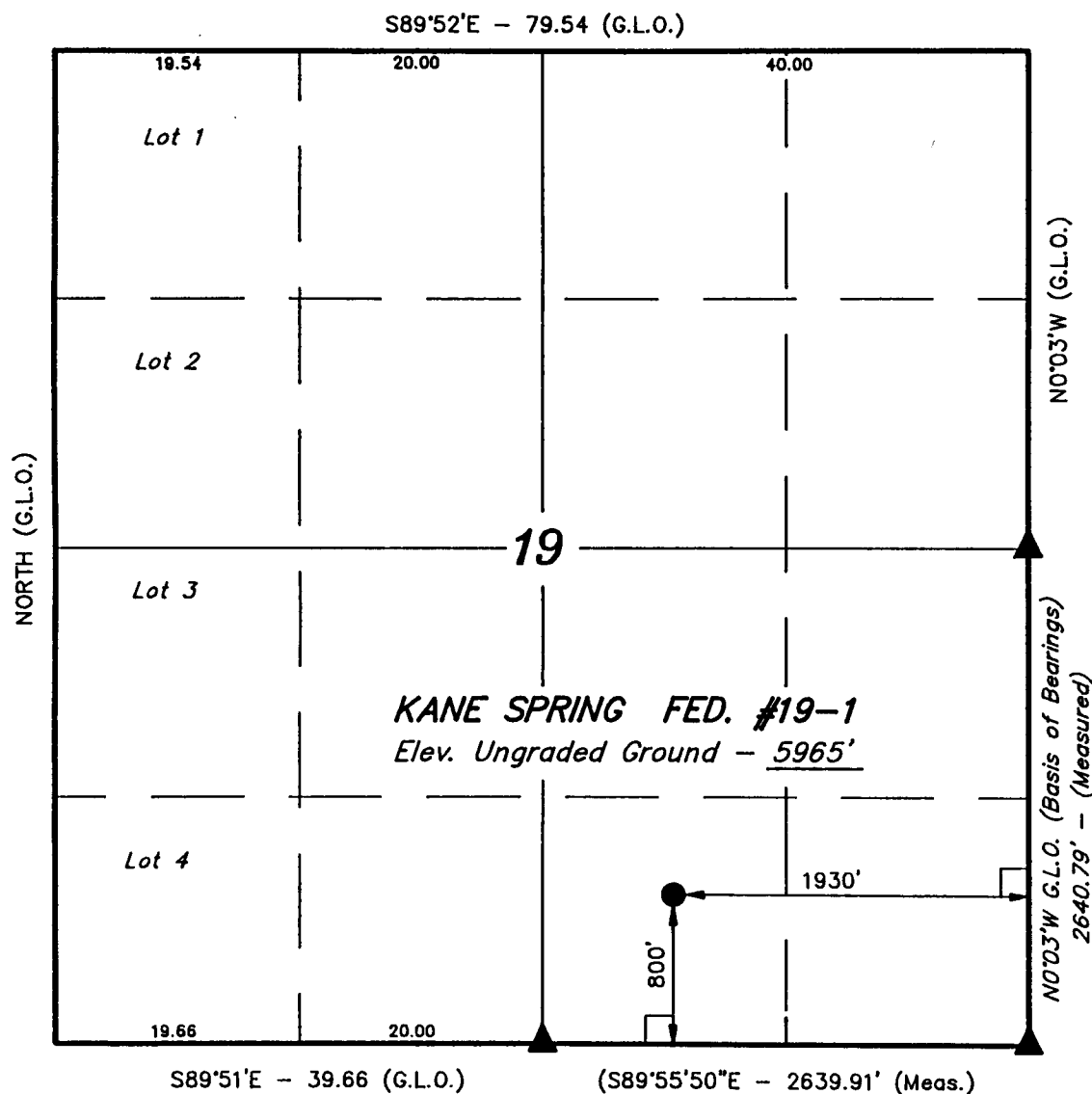
*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

T26S, R20E, S.L.B.&M.

COLUMBIA GAS DEVELOPMENT CORP.

Well location, KANE SPRING FED. #19-1,
located as shown in the SW 1/4 SE 1/4 of
Section 19, T26S, R20E, S.L.B.&M. Grand
County, Utah.



BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHEAST CORNER OF SECTION 19, T26S, R20E, S.L.B.&M. TAKEN FROM THE GOLD BAR CANYON QUADRANGLE, UTAH, GRAND COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6002 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Key
REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(801) 789-1017

SCALE 1" = 1000'	DATE 3-25-91
PARTY J.T.K. H.C. J.R.S.	REFERENCES G.L.O. PLAT
WEATHER COOL	FILE COLUMBIA GAS DEV'P. CORP

▲ = SECTION CORNERS LOCATED. (Brass Caps)

Columbia Gas Development Corp.
Well No. Federal 19-1
SWSE Sec. 19, T. 26 S., R. 20 E.
Grand County, Utah
Lease U-53626

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Columbia Gas Development Corp. is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by C00356 (Principal - Columbia Gas Development Corp.) via surety consent as provided for in 43 CFR 3104.3.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

A. DRILLING PROGRAM

~~All lease operations will be conducted in full compliance with~~ applicable regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1 and Onshore Oil and Gas Order No. 2 and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to the field representative to insure compliance.

1. If consolidated rock is encountered, conductor shall be set ten (10) feet into underlying bedrock with cement circulated to surface.
2. Surface casing will be set 50 feet into the Chinle Formation regardless of the depth the Chinle is encountered.
3. Surface casing shall have a centralizer on each of the bottom three joints.
4. A 2000 lb. 20 inch annular preventer shall be installed, tested and in working condition prior to drilling through surface casing shoe according to Onshore Order #2 specifications.
5. Usuable quality water and prospectively valuable minerals shall be isolated and/or protected. Geologic analysis indicates that usable quality water may be in the Cutler Formation at a projected vertical borehole depth of 1485 feet. Geologic analysis also indicates that potash (a prospectively valuable mineral) may be encountered in the Paradox Formation at a projected borehole depth of 4423 feet. If encountered while drilling, these zones shall be isolated and/or protected by bringing the cement level behind the intermediate/production casing to at least 100 feet above the formation occurrence.

6. No hexavalent chromate additives will be used in the mud system in order to protect usable quality water aquifers.
7. Daily drill and completion progress reports shall be submitted to the District Office on a weekly basis.

Company: Columbia Gas Dev.
Well: 19-1
Section: 19, T.26S., R20E.

CONDITIONS OF APPROVAL
SURFACE USE PLAN

CONSTRUCTION:

1. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance. Surface material will not be placed on the access road or location without prior BLM approval.
2. If dry soil conditions are encountered, the area should be moistened periodically to reduce fugitive dust.
3. A 60'x 30' asphalt approach will be constructed off Hwy 313 onto Columbia's dirt access.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will then be allowed to resume construction.

Drilling

1. The access road will occasionally be moistened to keep the road from getting dusty and destroying the road base.
2. Where possible, night lighting will be directed away from the campground.
3. Steps will be taken to reduce noise associated with the drilling activity to reduce impacts to the adjacent campground in Deadhorse Point State Park.

PRODUCTION

1. If production occurs, the resource area should be notified as soon as possible so that an onsite can be scheduled to discuss the permanent placement and orientation of the production facilities. A paint color will be given at that time (# 4A5, SUP).
2. The access will be to the design of a Class 111 road.

REHABILITATION

1. The operator or his contractor will contact the Grand Resource Area BLM office in Moab, Utah, phone (801-259-6111), 48 hours prior to starting rehabilitation work that involves earthmoving equipment and completion of restoration measures.
2. All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area.
3. The stockpiled topsoil will be evenly distributed over the disturbed area.
4. All disturbed areas will be scarified with the contour. Do not smooth pads out, leave a roughened surface.
5. Seed will be (broadcast/drilled) sometime between August 1 and March 30 when there is no frost in the ground. A seed mixture will be specified by the BLM. When broadcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover.

C. SURFACE USE PLAN

1. All site security guidelines identified in 43 CFR 3162.7-5 and ONSHORE OIL AND GAS ORDER NO. 3; SITE SECURITY will be adhered to.
2. Gas measurement will be conducted in accordance with the ONSHORE ORDER NO. 5; GAS MEASUREMENT and 43 CFR 3162.7-3.
3. Oil measurement will be conducted in accordance with ONSHORE OIL AND GAS ORDER NO. 4; OIL MEASUREMENT as of the effective date of August 23, 1989 and 43 CFR 3162.7-2.
4. All loading lines and valves will be placed inside the berm surrounding the tank battery.
5. All off-lease storage, off-lease measurement, or commingling on-lease of off-lease will have prior written approval from the Assistant District Manager.
6. Pipeline construction activity is not authorized under this permit.
7. Produced waste water will be confined to an unlined pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the Assistant District Manager's approval pursuant to Onshore Oil and Gas Order No. 3, (NTL-2B).
8. There will be no deviation from the proposed drilling and/or workover program without prior approval from the Assistant District Manager. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.3-6.
9. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
10. The dirt contractor will be provided with an approved copy of the surface use plan of operations.
11. This permit will be valid for a period of one (1) year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

D. Anticipated Starting Dates and Notifications of Operations:

Required verbal notifications are summarized in Table 1, attached. Written notification in the form of Sundry Notice (Form 3160-5) will be submitted to the District Office within twenty-four (24) hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

Should the well be successfully completed for production, the Assistant District Manager, Minerals Division will be notified when the well is placed in producing status. Such notification will be sent by telegram or other written communication, not later than five (5) business days following the date which the well is placed on production.

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Assistant District Manager, Minerals Division within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. ~~Final abandonment will not be approved until the surface reclamation work required~~ by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6.

The following minimum information will be permanently placed on the marker with a plate, cap or beaded-on with a welding torch: "Fed" or "Ind", as applicable. "Well number, location by 1/4 1/4 section, township and range". "Lease number".

NOTIFICATIONS

Notify Elmer Duncan of the Grand Resource Area, at
(801) 259-8193 for the following:

- 2 days prior to commencement of dirt work, construction or reclamation;
- 1 day prior to spudding;
- 50 feet prior to reaching surface casing depth;
- 3 hours prior to testing BOP's and surface casing.

If the person at the above number cannot be reached, then notify Fred Oneyear in the Moab District Office at (801) 259-6111 or at home (801) 259-5937 (If unsuccessful, then notify one of the following people listed below).

Notify the Moab District Office, Branch of Fluid Minerals at (801) 259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the Assistant District Manager, Minerals Division. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed.

Dale Manchester, Petroleum Engineer	Office Phone: (801) 259-6111
	Home Phone: (801) 259-6239
Eric Jones, Petroleum Engineer	Office Phone: (801) 259-6111
	Home Phone: (801) 259-2214

If unable to reach the above individuals including weekends, holidays, or after hours please call the following:

Lynn Jackson, Chief, Branch of Fluid Minerals	Office Phone: (801) 259-6111
	Home Phone: (801) 259-7990

24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Timothy H. Provan
Division Director

1596 West North Temple
Salt Lake City, Utah 84116-3195
801-530-4700
801-530-4709 Fax

*orig O&G file
for well.
Columbia
19-1*

May 20, 1991

Dr. Dianne R. Nielson, Director
Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Dianne:

I am responding to a wildcat well drilling permit request on federal lease UTU-53626 by Columbia Gas Development Corporation. This item was listed as state action UT910506-070 in the Resource Development Coordinating Committee (RDCC) agenda items. The Division of Wildlife Resources has some specific concerns with this project and its potential impacts to wildlife and wildlife habitat.

Impacts will be associated with short and long-term activities generated by the company. Although the activities associated with just the wildcat well will most likely be for only 30 days, long-term impacts associated with increased access, increased road densities and petroleum products associated with these activities can result in long-term impacts. The species that could potentially be impacted include mule deer, bighorn sheep, reptilian species and birds, which includes waterfowl, passerine birds and peregrine falcons.

The waste pits associated with the drilling operation create a hazard for birds. Waste pits appear as inviting water holes and the petroleum products they contain are fatal for the birds. These pits should be covered by netting to prevent birds from becoming trapped. Causing the death of waterfowl or passerine birds would be a violation of the Migratory Bird Treaty Act. A peregrine falcon eyrie is located just off Dead Horse Point. These birds likely use the sagebrush flats to hunt. White-throated swift, mourning doves, western meadowlarks and other passerine birds are their primary prey. Impacts that would reduce these populations will have an effect on the peregrines in this area.

Another point of concern is the source of water for these wells. If water is obtained by developing springs or depleting available surface water in the project vicinity, then this will impact the local wildlife species. If water is obtained from the Colorado River, the impacts to threatened and endangered Colorado River species must be considered.


Dr. Dianne R. Nielson, Director
May 20, 1991
Page 2

Increasing oil and gas development in southeast Utah without proper planning concerns us. Wildlife impacts associated with these activities can be extremely damaging to many species. Of primary concern are the cumulative impacts these activities will have on wildlife habitat and wildlife directly. We would like to see a responsible action taken to help develop guidelines for protecting wildlife and wildlife habitat in the area. We understand your agency is not the primary leader when these wells are on Bureau of Land Management land; but as an involved agency, I am soliciting your help. We would like to see a delay in these activities until a plan or an EIS can be prepared. DWR would prefer an EIS be developed.

We appreciate the opportunity to provide comments. Your personnel should direct any response you have to our requests to:

Ken Phippen, Habitat Manager
Southeastern Region
455 West Railroad Avenue
Price, Utah 84501
Phone: 637-3310

Sincerely,



Timothy H. Provan
Director



Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

May 21, 1991

Columbia Gas Development Corporation
P.O. Box 1350
Houston, Texas 77251-1350

Gentlemen:

Re: Kane Springs Federal #19-1 Well, Surface Location: 800' FSL and 1930' FEL, B.H. location: 2000' FNL and 1350' FEL, SW SE, Section 19, Township 26 South, Range 20 East, Grand County, Utah

Approval to drill the referenced well is hereby granted in accordance with Utah Admin. R. 615-3-2, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Utah Code Ann. § 73-3, Appropriation.
2. Special attention is directed to compliance with Utah Admin. R. 615-3-31, which prescribes drilling procedures for designated potash areas.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of Entity Action Form 6, within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.

Page 2
Columbia Gas Development Corporation
Kane Springs #19-1
May 21, 1991

4. Prompt notification in the event it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (801) 538-5340, (Home) 571-6068, or F. R. Matthews, Petroleum Engineer, (Office) (801) 538-5340.
5. Compliance with the requirements of Utah Admin. R. 615-3-20, Gas Flaring or Venting.
6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of Drinking Water/Sanitation, telephone (801) 538-6159.
7. The derrick lighting on the drilling rig should be directed away from the campground area in Deadhorse State Park in order to reduce visual impacts.
8. Dust from the access road should be controlled by periodic watering of the road.
9. Effort should be made to reduce the noise associated with the actual drilling operation.
10. Any pits associated with this operation which create potential hazards to birds, should be covered by suitable netting to prevent the entry of birds to the pits.
11. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

Page 3
Columbia Gas Development Corporation
Kane Springs #19-1
May 21, 1991

The API number assigned to this well is 43-019-31319.

Best regards,



Dianne R. Nielson
Director

lsj
Enclosures
cc: Bureau of Land Management
R. J. Firth
F. R. Matthews
J. L. Thompson
RJF4

RECEIVED

MAY 22 1991

File Code 3160

DIVISION OF
OIL GAS & MINING

DECISION RECORD AND
FINDING OF NO SIGNIFICANT IMPACT

EA Log No. UT-068-91-042

Lease No. U53626

Project Application for Permit to Drill Oil Exploration Well 19-1

Applicant Columbia Gas Development

Address Houston, TX

Project Location Sec. 19, T.26R., R.20E., SLM County Grand

BLM Office Grand Resource Area

Phone No. (801) 259-8193

DECISION RECORD: The following is the decision of the Bureau:

To approve the Application(s) for Permit to Drill subject to the terms and provisions of the lease and the subsequent Conditions of Approval.

CONDITIONS OF APPROVAL: Refer to attached sheet.

Rationale:

The Application for Permit to Drill and the attached conditions will prevent significant impacts to the environment. The APD is in conformance with management actions provided for in the Grand Resource Area RMP, consistent with BLM objectives of 43 CFR 3160, and National Minerals Management Policy.

Renneth V Rhea
acting District Manager

5/14/91
Date

FINDING OF NO SIGNIFICANT IMPACT

Based on the analysis of potential environmental impacts contained in the accompanying environmental assessment, referenced above, I have determined that impacts are not expected to be significant. Therefore an environmental impact statement is not required.

B. O. P.
Area Manager

5/10/91
Date

Environmental Assessment
UT-068-91-042
Columbia Gas Development

INTRODUCTION

The Grand Resource Area, Moab District of the Bureau of Land Management (BLM) received an Application for Permit to Drill (APD) from Columbia Gas Development of Houston, Texas. The proposed drilling location is in Sec. 19 , T26S., R20E., of Grand County, Utah.

The proposed wildcat well would be located on oil and gas lease U-53626, assigned to Exxon Corp. The lease was issued by the BLM subject to provisions of the lease, and regulations in 43 CFR 3160, BLM Onshore Order No. 1, 1983, and other appropriate orders and Notices to Lessees (NTL).

This environmental assessment tiers to the Grand Resource Area Resource Management Plan which directs decision making for the affected area, and to the Environmental Analysis Record (EAR) for Proposed Oil and Gas Leasing in the Grand Resource Area (1976), and the RMP Supplemental Environmental Assessment #UT-060-89-025 (12/88), on file at the Grand Resource Area office, which documents in greater detail the impacts to the resources affected by the proposed action.

PROPOSED ACTION

Columbia Gas Development submitted an APD, 8 point drilling plan and 13 point surface use plan (SUP) to the BLM with the intention of drilling a second exploratory well to further test the Cane Creek formation in Sec. 19, T26S., R20E. following their recent discovery well in section 27, T.25 S., R.19 E.. The proposed well would be located on oil and gas lease U-53626 (see Map 1.). Columbia is scheduled to begin construction on May 15th and scheduled to spud by May 25th, 1991 (#8, Drilling plan). The 8 point drilling plan and the 13 point surface use plan are standardized stipulations, regulations, and policy which are part of every APD package. These contain measures that provide mitigation for many of the impacts that can be expected to occur from such actions. These documents may be found in oil and gas well file 19-1.

Columbia proposes to construct 0.3 miles of new access with an 18 foot driving surface, a 100 X 200 foot reserve pit, and a 450 X 200 foot drilling pad (plat #1). Topsoil will be stripped and saved for use in reclamation. The drilling program should take upwards of 46 days. The reserve pit and any portion of the location not needed for production facilities/operations will be reclaimed. If production occurs, a vertical separator, two or more cylindrical storage tanks, an emergency pit, and associated piping will be positioned, oriented, and painted to lessen visual intrusions. The access road will be upgraded with additional drainage designs if needed. If a dry hole is encountered, the access road and drill pad will be rehabilitated.

NO ACTION ALTERNATIVE

BLM would deny the APD. No surface disturbance nor drilling would occur within the lease boundaries.

AFFECTED ENVIRONMENT AND ENVIRONMENTAL IMPACTS

NATURAL ENVIRONMENT

Regional Setting

Approximately 26 miles NW of Moab, Utah in an area known as Big Flat.

Geology

Potential source of hydrocarbons may occur in the Cane Creek formation.

Impacts of the Proposed Action

If hydrocarbons were found, there would be an irreversible loss of unknown volumes from this formation.

Impacts of No Action

No hydrocarbons would be explored for or removed.

Vegetation and Soil

The major soil type in the area is semi-desert sandy loam. The dominant vegetation is bunchgrasses (indian ricegrass, galleta) and low profile shrubs (ephedra, sage).

Impacts of the Proposed Action

Approximately 17,000 cubic yards of soil will be reconstructed into a drilling and production pad (Plat #1). Maximum cuts will be 6 feet on the northwest edge. Maximum fills will be 4.4 feet on the southeast edge (Plat #1). Two and a half acres of vegetation (15% cover) will be removed by the reconstruction. Topsoil and seed will be replaced during the abandonment procedures which may be as temporary as 90 days or up to ten years.

Impacts of No Action

There will be no vegetative loss due to construction or drilling activities. Only natural soil loss from wind and water erosion would occur.

Mineral Lease

Lease U-53626 was issued on May 1, 1984. It is subject to terms and conditions that were in existence at the issuance date. There are 1991.05 acres within the boundaries of this lease.

Impacts of the Proposed Action

The lease will remain in effect beyond its primary term so long thereafter as hydrocarbons are produced in paying quantities (3141.5-2, 43 CFR). Local economics would be favorably impacted. A domestic energy source of unknown potential would be developed.

Impacts of No Action

If the lessee made prior financial or business commitments or and arrangements, economic hardships may ensue. The terms and conditions of the lease would have been misleading and the lessee's rights would have been denied. Local economics could be unfavorably impacted. Fewer barrels of oil and cubic feet of gas would be available nationally for a domestic source of energy.

Audible Impacts

There is noise associated with the drilling activity. This noise may come from the rig's diesel engines, mud pumps, drawworks, and other various activities around the drill rig. Within Deadhorse State Park there is a campground 2.5 miles south and west of this proposed location. The prevailing winds come from a west northwesterly direction. In January of 1991, Columbia Gas drilled a well (27-1) 6.5 miles to the northwest of this proposed location. During this time, when the air mass is more dense, associated rig noise from the 27-1 location was no longer audible past one mile and at most times less than a mile in any direction (personal contact). Two summers previous, there was a drilling rig approximately 1/4 mile west of this proposal. Deadhorse Point officials indicated that sometimes a dull sound from that drilling activity was audible from their campground. If production is attained and pumpjacks are used to lift the oil, there may be some pumping noise (metallic squeaking) and engine noise depending on the energy source to move the pumpjack. If the energy used is electricity then there would be no engine noise.

Impacts of the Proposed Action

Some visitors anticipating to experience solitude may be impacted in this campground.

Impacts of No Action

No artificial noise generated from drilling activity would be audible in the area.

Particulate Impacts

If the soils are dry, drill pad construction activity, heavy truck traffic, and frequent traffic on dirt surfaces will cause temporary, local dusty conditions. These conditions would be aggravated and magnified with winds.

Impacts of the Proposed Action

Strong winds over the area could foreseeably carry fugitive dust from the drilling pad towards the campground within the State Park and be a temporary nuisance to campers.

Impacts to No Action

No additional particulates would be borne by the winds.

Recreation

Access to the drilling location is along Highway (Hwy) 313 which is the access to Island in the Sky (Canyonlands National Park) and Deadhorse Point State Park. In 1990, the Island in the Sky District had 151,000 visits and Deadhorse Point State Park had 119,600 visits. The drilling location is about 1/2 mile from the State Park entrance. There will be approximately 44 semi-truckloads of drilling equipment transported to the proposed location over a period of five days. During the drilling activity, ten employee vehicles, two water trucks, and an occasional semi-truck will be travelling on Hwy 313. Upon completion of drilling, another 44 equipment loads will be removed from the proposed location. During the set-up production phase, four employee vehicles, one flat-bed semi-truck will be on Hwy 313 for a period of three weeks. During the production phase, one employee vehicle and up to three oil transport trucks will be on Hwy 313 on a daily basis.

Impacts to the Proposed Action

The increased traffic associated with the drilling activity could present an increased safety risk for recreational users (biking and driving for pleasure) although there is a 12 foot wide bike lane. The drilling activity will be visible for a couple of mile segments on Hwy 313 during the day and a longer segment during the night. The production facilities would be visible from less than a mile off Hwy 313. To some recreational users the presence of the facilities would detract from their experience.

Impacts to No Action

None

Visual Impacts

The drilling activity will be running 24 hours a day for approximately 46 days. There are white lights on the rig floor and white & red lights on the derrick. These lights are for safety, mandated by the Occupation & Safety Health Act and by the Federal Aviation Administration.

Impacts to the Proposed Action

At night, lights from the upper portions of the derrick may be visible from the Deadhorse State Park campground and be an intrusion to the campers night-time experience.

Impacts to No Action

There will be no night-time lighting to the north of the campground beyond highway traffic.

Cultural Resources

The exploration site was surveyed by an independent archaeological firm. No sites were identified.

Impacts of the Proposed Action

Unidentified cultural resources at depth may be impacted.

Impacts of No Action

No cultural resources would be impacted.

Description of Mitigation Measures

To reduce engine noise, the winterizing shields could be left up in the direction of the campground.

Occasional wetting of the dirt surfaces will reduce fugitive particulates.

Lighting will be directed away from the campground and some lights may be shielded in the direction of the campground if it will not pose a safety hazard.

If production occurs, facilities will be sited, oriented, and painted in ways to best reduce longterm visual impacts.

PUBLIC CONTACTS

Sam Cunningham, Grand County Commissioner
Max Jensen, Utah State Parks
Columbia Gas Development
Knut & Son Contractors
Bette Stanton, Grand Economic Development Commission
Rock Smith, Manager, Deadhorse Point

REFERENCES

Grand Resource Area Resource Management Plan
Grand Resource Area Environmental Impact Statement
BLM SVIM soil survey data
RMP supplemental Environmental Assessment # UT-060-89-025
Checklist for Environmental Assessment

APPENDICES

1. Site pictures
2. Pit and pad layout
3. Surface Use Plan

MAPS

General Topo

Ref: UT-068-91-42

Environmental Impacts:

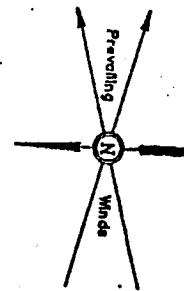
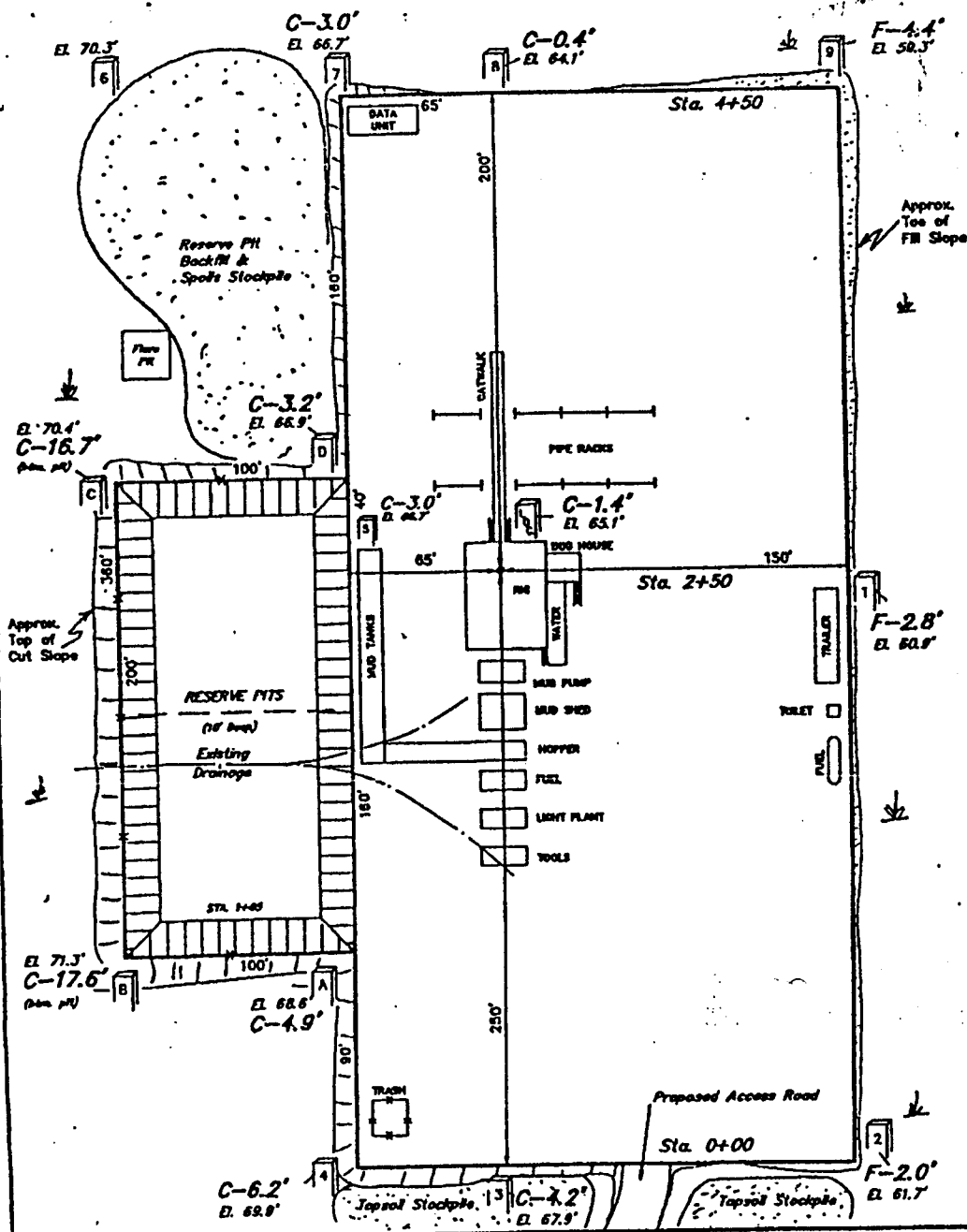
<u>Critical Element</u>	<u>Affected</u>		<u>Date</u>
	<u>Yes</u>	<u>No</u>	
Air Quality	___	<u>Rec</u>	<u>4/5/91</u>
T & E Plants	___	<u>Rec</u>	<u>4/5/91</u>
Floodplains	___	<u>Rec</u>	<u>4/5/91</u>
Farmlands	___	<u>Rec</u>	<u>4/5/91</u>
Water Quality	___	<u>Rec</u>	<u>4/5/91</u>
Cultural (surface)	___	<u>AT</u>	<u>4/30-91</u>
Paleontology	___	<u>AT</u>	<u>4/30-91</u>
T & E Animals	___	<u>ATC</u>	<u>4-15-91</u>
Wetlands/Riparian	___	<u>ATC</u>	<u>4-15-91</u>
ACECs	___	<u>Aut.</u>	<u>4-2-91</u>
Wilderness	___	<u>Aut.</u>	<u>4-2-91</u>
Wild & Scenic Rivers	___	<u>Aut.</u>	<u>4-2-91</u>
V R M CLASS III	___	<u>Aut.</u>	<u>4-2-91</u>
Waste Hazardous/Solid	___	<u>R</u>	<u>4-30-91</u>

Appendix



Draw





SCALE: 1" = 50'
DATE: 3-25-81
Drawn By: J.R.S.
REVISED: 3-26-81 R.E.H.

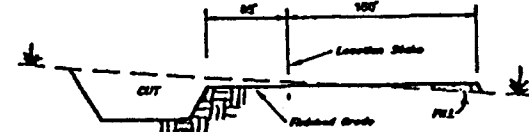
X-Section Scale
1" = 100'

TYP. CROSS SECTION LAYOUT

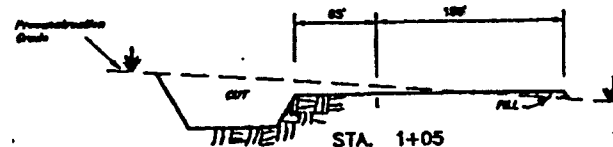
COLUMBIA GAS DEVELOPMENT CORP.
LOCATION LAYOUT FOR
KANE SPRING FED. #19-1
SECTION 19, T26S, R20E, S.L.B.84L



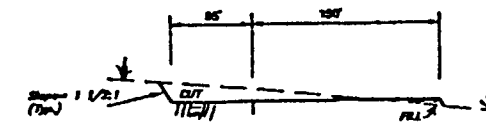
STA. 4+50



STA. 2+50



STA. 1+05



STA. 0+00

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 2,200 Cu. Yds.
PH Volume (Below Grade)	= 3,670 Cu. Yds.
Remaining Location	= 8,670 Cu. Yds.
TOTAL CUT	= 16,990 CU.YDS.
FILL	= 3,480 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 11,200 Cu. Yds.
Topsoil & PR Backfill (1/2 Pit Vol.)	= 3,110 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 8,090 Cu. Yds.

NOTES:

Env. Ungraded Ground At Loc. Stake = 5965.1'
FINISHED GRADE ELEV. AT LOC. STAKE = 5963.7'

UINTAH ENGINEERING & LAND SURVEYING
66 South 200 East, Farmington, Utah



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Timothy H. Provan
Division Director

1596 West North Temple
Salt Lake City, Utah 84116-3195
801-538-4700
801-538-4709 Fax

May 20, 1991

RECEIVED

MAY 22 1991

DIVISION OF
OIL GAS & MINING

FAX REC'D 5/21/91

Dr. Dianne R. Nielson, Director
Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Dianne:

I am responding to a wildcat well drilling permit request on federal lease UTU-53626 by Columbia Gas Development Corporation. This item was listed as state action UT910506-070 in the Resource Development Coordinating Committee (RDCC) agenda items. The Division of Wildlife Resources has some specific concerns with this project and its potential impacts to wildlife and wildlife habitat.

Impacts will be associated with short and long-term activities generated by the company. Although the activities associated with just the wildcat well will most likely be for only 30 days, long-term impacts associated with increased access, increased road densities and petroleum products associated with these activities can result in long-term impacts. The species that could potentially be impacted include mule deer, bighorn sheep, reptilian species and birds, which includes waterfowl, passerine birds and peregrine falcons.

The waste pits associated with the drilling operation create a hazard for birds. Waste pits appear as inviting water holes and the petroleum products they contain are fatal for the birds. These pits should be covered by netting to prevent birds from becoming trapped. Causing the death of waterfowl or passerine birds would be a violation of the Migratory Bird Treaty Act. A peregrine falcon eyrie is located just off Dead Horse Point. These birds likely use the sagebrush flats to hunt. White-throated swift, mourning doves, western meadowlarks and other passerine birds are their primary prey. Impacts that would reduce these populations will have an effect on the peregrines in this area.

Another point of concern is the source of water for these wells. If water is obtained by developing springs or depleting available surface water in the project vicinity, then this will impact the local wildlife species. If water is obtained from the Colorado River, the impacts to threatened and endangered Colorado River species must be considered.

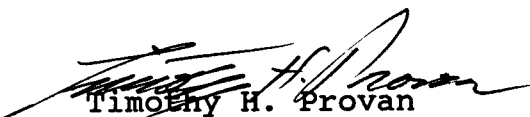
Dr. Dianne R. Nielson, Director
May 20, 1991
Page 2

Increasing oil and gas development in southeast Utah without proper planning concerns us. Wildlife impacts associated with these activities can be extremely damaging to many species. Of primary concern are the cumulative impacts these activities will have on wildlife habitat and wildlife directly. We would like to see a responsible action taken to help develop guidelines for protecting wildlife and wildlife habitat in the area. We understand your agency is not the primary leader when these wells are on Bureau of Land Management land; but as an involved agency, I am soliciting your help. We would like to see a delay in these activities until a plan or an EIS can be prepared. DWR would prefer an EIS be developed.

We appreciate the opportunity to provide comments. Your personnel should direct any response you have to our requests to:

Ken Phippen, Habitat Manager
Southeastern Region
455 West Railroad Avenue
Price, Utah 84501
Phone: 637-3310

Sincerely,



Timothy H. Provan
Director

COLUMBIA GAS
Development



June 5, 1991

BUREAU OF LAND MANAGEMENT
MOAB DISTRICT OFFICE
82 E. DOGWOOD
MOAB, UTAH 84532

RECEIVED

JUN 07 1991

DIVISION OF
OIL GAS & MINING

Attention: Mr. Dale Manchester

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION
KANE SPRINGS FEDERAL #19-1 & KANE SPRINGS FEDERAL #28-1
SEC.19-T268-20E SEC.28-T258-19E
GRAND COUNTY, UTAH GRAND COUNTY, UTAH
API NO. 43-019-31319

Dear Mr. Manchester:

Please find enclosed Columbia's Sundry Notices, in triplicate, and one Public Information copy for the above referenced locations.

If you have any questions, or require any additional information, please contact me at 713/871-3482.

Sincerely,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Aline A. Reese".

Aline A. Reese
Regulatory Clerk

AAR
Encl.

cc: State of Utah Natural Resources Oil, Gas & Mining
Mr. R. J. Firth

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED IN TRIPPLICATE
(Other instructions on re-
verse side)

Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.
UTU-53626

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Kane Springs Federal

8. FARM OR LEASE NAME

Kane Springs Federal

9. WELL NO.

#19-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 19-T26S-R20E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Columbia Gas Development Corp. 713/871-3400

3. ADDRESS OF OPERATOR

P. O. Box 1350 Hou., TX. 77251-1350

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)

At surface

800' FSL & 1930' FWL of Sec. 19-T26S-R20E

14. PERMIT NO.

43-019-31319

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

Gr. 5965

CONFIDENTIAL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

RELL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Revision to APD

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-
nent to this work.)*

PLEASE NOTE, CHOKE MANIFOLD WILL BE REVISED TO A TYPICAL 5M Manifold
INSTEAD OF THE 3M MANIFOLD STATED IN THE APD.

RECEIVED

JUN 07 1991

DIVISION OF
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

ALINE A. REESE

TITLE

Regulatory Clerk

DATE

6/5/91

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU53626
2. NAME OF OPERATOR Columbia Gas Development Corp. 713/871-3400		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P. O. Box 1350 Hou., TX. 77251-1350		7. UNIT AGREEMENT NAME Kane Springs Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 800' FSL & 1930' FWL of Sec.19-T26S-R20E		8. FARM OR LEASE NAME Kane Springs Federal Unit
14. PERMIT NO. 43-019-31319		9. WELL NO. #19-1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) Gr. 5965		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec.19-T26S-20E
		12. COUNTY OR PARISH Grand
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐

PULL OR ALTER CASING

☐
☐
☐
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANE

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐
☐

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other) Revision to APD

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PUBLIC INFORMATION

RECEIVED

JUN 07 1991

DIVISION OF
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

Aline A. Reese

TITLE Regulatory Clerk

DATE 6/5/91

Aline A. Reese

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION

43-019-31319

NAME OF COMPANY: COLUMBIA GAS DEVELOPMENT COMPANY

WELL NAME: KANE SPRINGS FEDERAL #19-1

SECTION SWSE 19 TOWNSHIP 26S RANGE 20E COUNTY GRAND

DRILLING CONTRACTOR GRACE

RIG # 269

SPUDDED: DATE 6-15-91

TIME 6:30 pm.

HOW ROTARY

DRILLING WILL COMMENCE

REPORTED BY BOBBY PIER

TELEPHONE # 259-2073

DATE 6-19-91

SIGNED

TAS TAKEN BY: FRM

COLUMBIA GAS
Development



July 8, 1991

STATE OF UTAH NATURAL RESOURCES OIL, GAS
& MINING
355 W. NORTH TEMPLE, 3 TRIAD CENTER, STE.#350
SALT LAKE CITY, UTAH 84180-1203

Attention: Mr. R. J. Firth

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION
KANE SPRINGS FEDERAL 19-1A
SEC.19-T268-R19E
GRAND COUNTY, UTAH
API NO. 43-019-31319

Dear Mr. Firth:

Please find enclosed Columbia's Sundry Notice, in triplicate,
regarding the skidding of the rig approx. twelve (12') ft. forward.

If you have any questions, or require any additional information,
do not hesitate to contact me at 713/871-3482.

Sincerely,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Aline A. Reese".

Aline A. Reese
Regulatory Clerk

AAR
Encl.

A rectangular stamp with the word "RECEIVED" in a bold, outlined, sans-serif font.

JUL 09 1991

DIVISION OF
OIL GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
 Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU 53626
2. NAME OF OPERATOR Columbia Gas Development Corporation 713/871-3400		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P. O. Box 1350 Hou., TX. 77251-1350		7. UNIT AGREEMENT NAME Kane Springs Fed. Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 800' FSL & 1930 FWL of Sec.19-T26S-R19E		8. FARM OR LEASE NAME Kane Springs Federal
14. PERMIT NO. 43-019-31319		9. WELL NO. #19-1A
15. ELEVATIONS (Show whether OF, RT, OR, etc.) Ground 5965		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLM. AND SURVEY OR ABBA Sec.19-T26S-R20E
		12. COUNTY OR PARISH 13. STATE Grand Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Skidding the Rig</u>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Verbal approval was received from the BLM on 6/28/91 to skid the rig approx. 12' forward.

Rig has been moved approx. 12' forward.

+ original filed in file 19-1A.

RECEIVED

JUL 09 1991

DIVISION OF
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

Aline A. Reese

TITLE Regulatory Clerk

DATE 7/8/91

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

COLUMBIA GAS

Development



July 9, 1991

BUREAU OF LAND MANAGEMENT
MOAB DISTRICT OFFICE
82 E. DOGWOOD
MOAB, UTAH 84532

Attention: Mr. Dale Manchester

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION
KANE SPRINGS FEDERAL #19-1
SEC.19-T26S-R20E
GRAND COUNTY, UTAH

Dear Mr. Manchester:

As per our conversation of today please find enclosed Columbia's Sundry Notice, in triplicate, regarding the plugging of the above referenced location.

If you have any questions, or require any additional information, do not hesitate to contact me at 713/871-3492.

Sincerely,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Aline A. Reese -".

Aline A. Reese
Regulatory Clerk

AAR
Encl.

CC: STATE OF UTAH NATURAL RESOURCES OIL, GAS & MINING
MR. R. J. FIRTH

RECEIVED

JUL 12 1991

DIVISION OF
OIL GAS & MINING

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

REMARKS IN TRIPLICATE (Other instructions on reverse side)

Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU-53626
2. NAME OF OPERATOR Columbia Gas Development Corp.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P. O. Box 1350 Hou., TX. 77251-1350		7. UNIT AGREEMENT NAME Kane Springs Fed. Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 800' FSL & 1930' FWL of Sec.19-T26S-R20E		8. FARM OR LEASE NAME Kane Springs Federal
14. PERMIT NO. 43-019-31319		9. WELL NO. #19-1
15. ELEVATIONS (Show whether DT, RT, GR, etc.) Ground 5965		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 80 Sec.19-T26S-R20E
		12. COUNTY OR PARISH Grand
		13. STATE Utah

10. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

CONFIDENTIAL

TD: 567

Date Plugged: 6/29/91

Procedure: 900 sx of C1-B cmt was mixed & pumped for a 515' plug from 525'-10' below ground level.

Rig was moved 12' forward to spud the Kane Springs Federal #19-1A on 7/4/91.

Use as WCR
DTs
8-1-91

RECEIVED

JUL 12 1991

DIVISION OF OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED <u>Aline A. Reese</u>	TITLE <u>Regulatory Clerk</u>	DATE <u>7/9/91</u>
(This space for Federal or State office use)		
APPROVED BY _____	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		

*See Instructions on Reverse Side